| | Section-A Section-A Chaire Out Six Decrease Contract Cont |
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| Q.1 | (Multiple Choice Questions (MCQ's) Choose the correct answer for each from the given options: |
| (i) | |
| | The center of gravity of body is a point where acts. (a) The Torque (b) The external force (c) The Weight of the body (d) None of these |
| /ii\ | (c) The Weight of the body (d) None of these |
| (ii) | Which of the following belong to the second kind of lever? |
| | (a) Pair of Scissor (b) Pair of forceps (c) Door (d) Arm balance |
| (iii) | (c) Door (d) Arm balance The waves produced by a vibrating body in air arewaves. |
| () | () Longitudinal (b) Transverse (c) Electromagnetic (d) Magnetic |
| (iv) | If q = 4 cm an dp = 2 cm, then the mangification of the mirror is: |
| (v) | (a) 2 (b) 0.5 (c)4 (d) None of these If the speed of body moving in circle is doubled it's centripetal acceleration be- |
| (v) | comes . |
| | (a) Twice (b) Four times (c) Eight times (d) None of these |
| (vi) (vii) | The energy possessed by a boyd due to its position is called: |
| | (a) Kinetic energy (b) Heat energy (c) Potential energy (d) None of these |
| | Elasticity of a substance depends on its: |
| | (a) Temperature (b) Size (c) Nature (d) None of these |
| (viii) | The temperature of substance changes fro -20°C to 20°C. What is the temperature change is kelvin's scale. |
| | (a) 100k (b) 40k (c) 293k (d) None of these |
| (ix) | The materials in which electric current can flow easily due of their low resistance |
| | are called (b) Semiconductors |
| | (a) Insulators (b) Semiconductors (c) Conductors (d) None of these |
| (x) | Dr Abdus Salm was awarded Nobel Prize for his work on |
| 389 | (a) Electronics (b) Radiation |
| (t) | (c) Grand unification theory (d) Gravitation |
| (xi) | One meter is equal to (a) 10 ⁴ mm (b) 10 ³ mm (c) 10 ² mm (d) 10 ⁶ mm |
| (xii) | is a scalar quantity. |
| | (a) Torque (b) Distance |
| (xiii) | (c) Momentum (d) Acceleration The unit of coefficient of friction is |
| | (a) Newton (b) Kilogram (c) Meter (d) None |
| (xiv) | When a ray of light enters obliquely from rarer into denser mediu, then an angle of |
| | refraction is angle of incidence. |
| (xv) | (a) Greater than (b) Smaller than (c) Equal to (d) unrelated to According to Hygen's waves theory, light propagates in the shape of |
| (xvi) | (a) Photons (b) Waves (c) Particles (d) None of these |
| | The value of constant that occurs in coulumbs force formula isnm² / C² ' |
| | (a) 9×10^{-9} (b) 9.0×10^{-16} (c) 9.0×10^{9} (d) 9.9×10^{-9} |
| (xvii) | A galvanometer can be convereted into an ammeter by connecting a wire of lover resistance with the galvanometer. |
| | (a) In series (b) In parallel |
| | (c) In a combined way (d) In no way |
| | Section-B |
| | (Short Answer) Answer any EIGHT of the following questions. Each question carries 05 |
| Note: | marks. |
| | HIM NIND |
| Q.2 Q.3 | What are fundamenetal and derived units? |
| Q.4 | A gody starting from rest acquires a velocity of 10 m/s in 5 seconds Calculate |
| | the distance coverted by the body in 5 seconds. |
| Q.5 | How can a vector be represented in magnitude and direction both? |
| Q.6 | Define centre of gravity. How would you locate the centre of gravity of an irregular piece of a metal sheet? |
| Q.7 | What is centripetal force? Give examples of a body moving in circular path. |
| Q.8 | A box is pushed 5 m across a level surface by a horizontal force of 200 N, How |
| | much work is done on the box? |
| Q.9 Q.10 | What is an inclined plane and how does it help in doing work? What is atmospheric pressure? How will you measure it? |
| Q.11 | A car of mass 1000 kg travelling at 72 km/h uniformly brought to rest over a |
| R at | distance of 40 m Find the average acceleration. |
| Q.12 | |
| Q.13 | What do yu understand by capacitor and its capacitance .Define its unit. Section-C |
| | (Descriptive Answer) |
| Note | |
| SOLVE SALES | marks. |
| 23 32 | (a):State and explain Hooke's law Desribe an experiment to verify Hooke's law Differentiate between heat and temperature. |
| (b) Q.15 | (a) Explain the formation of an image by a plane mirror. |
| (b) | An object is placed at a distance of 30 cm from a concave mirror of focal length |
| | 5cm. If the object is 5cm high, find the position and size of the image. |
| Q16 (b) | (a) Explain the Right Hand Rule for the magnetic force. Explain the working of an Electric Bell. |
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